VOLUME 5 1988

SUBJECT INDEX

Abstinent alcohol abusers, 263
  breath ethanol concentrations
Acetaldehyde
  acute administration, 337
  aldehyde dehydrogenase, 39
  assay system, 39
  brain, rat, 337
  calcium channels, L-type, 337
  ethanol, 337
  human biological material, 39
  isozyme activity, 39
  ^{3}H-nitrendipine binding, 337
Acute administration
  acetaldehyde, 337
  arterial baroreflex, 221
  brain, rat, 337
  calcium channels, L-type, 337
  central mediation impairment, 221
  ethanol, 103, 221, 337
  glutathione metabolism, 103
  ^{3}H-nitrendipine binding, 337
Acute intoxication, after-effects, 403
  alcohol
Acyl group composition, 153
  alcoholics
  human studies
  serum lipids
Adenylate cyclase, 445
  brain, mouse
  ethanol
  noradrenaline stimulated cAMP formation
  vasoactive intestinal peptide stimulated cAMP formation
Adrenal monamine concentrations, 417
  brain regional concentrations
  strain differences
  stress
Adrenocortical response, 287
  dose-dependent effects
  ethanol
  strain differences
Alcohol
  acute intoxication, after-effects, 403
  alcohol abusers, 481
  alcohol consumption, 301
  alcohol-induced alterations, 183
  alcohol preference, 301
  amino acid loading, 481
  astrocytes, 183
  blood alcohol concentration, 209
  brain, 215
  carbohydrate-deficient transferrin, 393
  double-blind placebo-controlled study, 481
  drinking paradigm, 301
  early alcohol dependence, 393
  enkephalinase inhibition, 481
  gangliosides, 215
  genetic breeding, 173
  human studies, 481
  human studies, female, 393
  microencephaly, 209
  milk yield, 95
  norepinephrine, 183
  pattern of administration, 209
  phosphoinositide hydrolysis, 183
  polydrug abusers, 481
  prolactin release, 95
  rats, neonatal, 209
  renin-angiotensin system, 173
  SAAVE, 481
  sialidase, 215
  suckling, 95
  sucrose octa acetate (SOA), 301
  taste comparison, 301
  voluntary intake, 173
Alcohol abuse, 1
  alcohol abstinence
  serum gamma glutamyl transferase
Alcohol abusers, 481
  alcohol
  amino acid loading
  double-blind placebo-controlled study
  enkephalinase inhibition
  human studies
  polydrug abusers
  SAAVE
Alcohol abstinence
  alcohol abuse, 1
  moderate drinking, 229
  serum gamma glutamyl transferase, 1
  urinary dolichol levels, 229
Alcohol consumption
  alcohol, 301
  alcohol preference, 301
  brain, rat, 505
  cerebrospinal fluid, human, 505
  drinking paradigm, 301
  harman, 505
  human studies, females, 21
  lung, rat, 505
  marihuana smoking, 21
  sexual activity, 21
  sucrose octa acetate (SOA), 301
  taste comparison, 301
Alcohol dehydrogenase, 45
  alcohol preference
  strain differences
Alcohol-deprivation effect, 85
  ethanol consumption
  genetic influences
  selective breeding
Alcohol disposition, 259
  ethanol
  nimodipene
Alcohol drinking, 147
  brain monoaminergic pathways
  buspirone
  tetrahydropapaveroline
Alcoholic liver disease, 49
  chronic alcohol consumption
  isolated hepatocytes
  mitochondrial GOT
Alcoholic liver injury
  hepatic aldehyde dehydrogenase isoenzymes, 33
  iron metabolization, 135
  lipid peroxidation, 135
  microsomal induction, 135
  species differences, 33
Alcoholics
  acyl group composition, 153
  benzodiazepine receptors, 275
  brain, human, 275
  frontal cortex, 275
  human studies, 153
  serum lipids, 153
Alcoholics/non-alcoholics, 73
  biopsy/autopsy liver, human
  liver aldehyde dehydrogenase isoenzymes
Alcohol-induced alterations, 183
  alcohol
  astrocytes
  norepinephrine
  phosphoinositide hydrolysis
Alcohol intake, 141
  endogenous opioid systems
  opioid studies
Alcoholism, 387
  blood cells
  enolase activity
  liver disease
  superoxide dismutase
Alcoholism etiology, 159
  beta-endorphin genetics
Alcohol metabolism, 91
  embryos, chick
  fetal hypoplasia
Alcohol preference
  alcohol, 301
  alcohol consumption, 301
  alcohol dehydrogenase, 45
  drinking paradigm, 301
  ethanol, 399
  ethanol overdrinking, 399
  schedule-induced polydipsia, 399
  strain differences, 45
  sucrose octa acetate (SOA), 301
  taste comparison, 301
Alcohol-related behaviors, 81
  alcohol sensitivity
  sodium channels
Alcohol sensitivity
  alcohol-related behaviors, 81
  ethanol, 513
  ethanol teratology, 513
  prenatal exposure, 513
  sodium channels, 81
  strain differences, 513
Alcohol withdrawal, 321
  cerebrospinal fluid histidine

Aldehyde dehydrogenase, 39
acetaldehyde
assay system
human biological material
isozyme activity
Amino acid loading, 481
alcohol
alcohol abusers
double-blind placebo-controlled study
enkephalinase inhibition
human studies
polydrug abusers
SAAVE
Amino acid transport, 359
ethanol
exocrine pancreas
pancreatic secretion
Aminotriazole, 5
catalase peroxidase pathway
ethanol
lethality
narcosis
Amnion, human, 63
ethanol
ionic transfer
nutrients, antagonistic actions
nutrients, preventive actions
synthetic cogeners
Animal models, 15
ethanol consumption effects
mathematical method of treatment
Anti-punishment effects, 437
ethanol
isopropylbicyclophosphate
Apomorphine, 107
drug interaction
ethanol withdrawal
hypothermia
Appartus
osmotic pumps, 409
rotarod, 403
Arterial baroreflex, 221
acute administration
central mediation impairment
Assay system, 39
acetaldehyde
aldehyde dehydrogenase
human biological material
isozyme activity
Astrocytes, 183
alcohol
alcohol-induced alterations
norepinephrine
phosphoinositide hydrolysis
Ataxia, 451
ethanol
prenatal ethanol exposure

Baboons, 477
diazepam
dose-dependent effects
drug interactions
ethanol
match-to-sample performance
Barbiturate withdrawal, 167
ethanol withdrawal
withdrawal convulsions
Beta-endorphin genetics, 159
alcoholism etiology
Benzodiazepine receptors, 275
alcoholics
brain, human
frontal cortex
Biopsy/autopsy liver, human, 73
alcoholics/non-alcoholics
liver aldehyde dehydrogenase isoenzymes
Blood alcohol concentration, 209
alcohol
microencephaly
pattern of administration
rats, neonatal
Blood cells, 387
alcoholism
enolase activity
liver disease
superoxide dismutase
Bombesin, 325
dose-dependent effects
ethanol
ethanol satiation
Brain
alcohol, 215
brain stem, 505
cerebellar peduncles, 417
cerebellum, 195, 239, 269, 450, 505
cerebral cortex, 239, 269, 445
cortex, 455, 461, 465, 505
frontal cortex, 195, 275, 295, 417
gangliosides, 215
hippocampus, 121, 125, 239, 269, 417, 451, 505
hypothalamus, 269, 295, 417, 505
lateral septal nucleus, 295
midbrain, 505
midbrain-brainstem block, 417
nucleus accumbens, 295
olfactory bulbs, 295
posterior striatum, 295
pre-optic area, 189
sialidase, 215
spinal cord, 505
striatum, 195, 417, 445, 505
substantia nigra, 295, 417
thalamus, 295
ventral tegmental area, 295
Brain monoaminergic pathways, 147
alcohol drinking
buspirone
tetrahydropapaveroline
Brain, mouse
adenylate cyclase, 445
ethanol, 445, 499
hydrolysis sialoconjugates, 499
in vitro, 499
noradrenaline stimulated cAMP formation, 445
vasoactive intestinal peptide stimulated cAMP formation, 445
Brain, rat
acetaldehyde, 337
acute administration, 337
alcohol consumption, 505
calcium channels, L-type, 337
cerebrospinal fluid, human, 505
endogenous steroids, 269
ethanol, 269, 337
$GABA_A$ receptors, 269
harman, 505
lung, rat, 505
^{3}H-nitrendipine binding, 337
Brain regional concentrations, 417
adrenal monoamine concentrations
strain differences
stress
Breath ethanol concentrations, 263
abstinent alcohol abusers
Buspirone, 147
alcohol drinking
brain monoaminergic pathways
tetrahydropapaveroline

Cadmium exposure, 99
ethanol responsiveness
righting reflex
Calcium, 251
ethanol
intoxication
lipid order
Calcium channels, L-type, 337
acetaldehyde
acute administration
brain, rat
ethanol
^{3}H-nitrendipine binding
Carbohydrate, 233
ethanol consumption
nutrition
protein
Carbohydrate-deficient transferrin, 393
alcohol
early alcohol dependence
human studies, female
Catalase peroxidase pathway, 5
aminotriazole
ethanol
lethality
narcosis
Central mediation impairment, 221
acute administration
arterial baroreflex
ethanol
Cerebrospinal fluid histidine, 321
alcohol withdrawal
Cerebrospinal fluid, human, 505
alcohol consumption
brain, rat
harman
lung, rat
Chicks, 305
detour learning
embryonic exposure
ethanol
Chloride channels, 239
ethanol
GABA/benzodiazepine receptors
motor impairment
p-Chlorophenylalanine, 343
ethanol
route of administration
strain differences
tolerance
Chronic alcohol consumption, 49
alcoholic liver disease
isolated hepatocytes
mitochondrial GOT
Clonidine, 431
differential motoric responses
differential thermic responses
ethanol
fetal ethanol exposure
Conditioned place preference, 309
ethanol
Cortex

ethanol, 455, 465
in utero ethanol exposure, 455
maternal ethanol consumption, 465
serotonergic system, 465
serotonin uptake, 455

Desensitization, 55
nicotine
seizures
strain differences
Detour learning, 305
chicks
embryonic exposure
ethanol
Diazepam
baboons, 477
dose-dependent effects, 471, 477
drug interactions, 471, 477
ethanol, 315, 471, 477
event related potential responses, 315
match-to-sample performance, 477
monkeys, 315
operant behavior, 471
Differential motoric responses, 431
clonidine
differential thermic responses
ethanol
fetal ethanol exposure
Differential thermic responses, 431
clonidine
differential motoric responses
ethanol
fetal ethanol exposure
Dogs, 111
ethanol elimination
intragastric/intravenous administration
Dose-dependent effects
adrenocortical response, 287
baboons, 477
bombesin, 325
diazepam, 471, 477
drug interactions, 471, 477
ethanol, 287, 295, 325, 471, 477
ethanol satiation, 325
match-to-sample performance, 477
monoamine pathways, 295
operant behavior, 471
strain differences, 287
Double-blind placebo-controlled study, 481
alcohol
alcohol abusers
amino acid loading
enkephalinase inhibition
human studies
polydrug abusers
SAAVE
Drinking behavior, 375
ethanol
ethanol self-administration
feeding behavior
prandial drinking
sucrose-fading technique
Drinking paradigm, 301
alcohol
alcohol consumption
alcohol preference
sucrose octa acetate (SOA)
taste comparison
Drug
acetaldehyde, 337, 371
N-[^{3}H]acetyl-D-mannosamine, 499
alcohol, 45, 81, 147, 159, 173, 183, 209, 215, 229, 301, 393, 403, 481
γ-aminobutyric acid, 269
aminotriazole, 5
apomorphine, 107
buspirone, 147
butyraldehyde, 505
calf thymus, 499
carbachol, 359
chlordiazepoxide, 437
p-chlorophenylalanine, 343
clonidine, 431
diazepam, 315, 471, 477
3,4,dihydroxyphenylacetic acid, 417
diphenylamine, 499
disulfiram, 337
dopamine, 417
ethanol, 5, 9, 15, 49, 63, 85, 91, 99, 103, 107, 111, 117, 121, 125, 141, 167, 189, 195, 203, 221, 233, 239, 251, 259, 263, 269, 283, 287, 295, 305, 309, 315, 325, 331, 337, 343, 349, 355, 359, 367, 371, ,375, 399, 431, 455, 461, 465, 471, 477, 495, 499, 513
fluoxetine, 283
L-glutamine, 481
harman hydrochloride, 505
5-hydroxyindoleacetic acid, 417, 455, 461, 465
5-hydroxytryptamine, 417
5-hydroxytryptophan, 465
indomethacin, 91
isopropylbicyclophosphate, 437
^{3}H-ketanserin, 461
LY117413, 141
L-lysine, 359
methanol, 505
3-methoxy-4-hydroxyphenylacetic acid, 417
methylaminoisobutyric acid, 359
4-methylumbelliferylsialic acid, 499
morphine, 141, 309
MR2266, 141
^{3}H-muscimol, 269
naloxone, 141
nicotine, 55
noradrenaline, 445
norepinephrine, 183, 417
pentafluorobenzyl bromide, 505
pentobarbital, 437
phenobarbital, 167
D-phenylalanine, 481
L-phenylalanine, 481
physostigmine, 27
propranolol, 445
pyrazole, 367, 499
Ro 15-4513, 203
L-serine, 359
serotonin, 455, 461, 465
sertraline, 349, 355
sialic acid, 499
tetrahydro-beta-carboline, 331
tetrahydropapaveroline, 147
m-trifluoromethylphenylpiperazine, 331
tryptophan, 417, 505
L-tryptophan, 481
tyrosine, 417
zimeldine, 349
Drug discrimination
ethanol, 203, 331
response time, 203
Ro 15-4513, 203
tetrahydro-beta-carboline, 331
Drug interactions
apomorphine, 107
baboons, 477
diazepam, 471, 477
dose-dependent effects, 471, 477
ethanol, 471, 477
ethanol withdrawal, 107
hypothermia, 107
match-to-sample performance, 477
operant behavior, 471

Early alcohol dependence, 393
alcohol
carbohydrate-deficient transferrin
human studies, female
Embryos, chick, 91
alcohol metabolism
fetal hypoplasia
Embryonic exposure, 305
chicks
detour learning
ethanol
Enkephalinase inhibition, 481
alcohol
alcohol abusers
amino acid loading
double-blind placebo-controlled study
human studies
polydrug abusers
SAAVE
Endogenous opioid systems, 141
alcohol intake
opioid studies
Endogenous steroids, 269
brain, rat
ethanol
$GABA_A$ receptors
Enolase activity, 387
alcoholism
blood cells
liver disease
superoxide dismutase
Ethanol
acetaldehyde, 337
acute administration, 103, 221, 337
adenylate cyclase, 445
adrenocortical response, 287
alcohol disposition, 259
alcohol preference, 399
alcohol sensitivity, 513
amino acid transport, 359
aminotriazole, 5
amnion, human, 63
anti-punishment effects, 437
arterial administration, 221
ataxia, 451
baboons, 477
bombesin, 325
brain, mouse, 445
brain, rat, 269, 337
calcium, 251
calcium channels, L-type, 337
catalase peroxidase pathway, 5
central mediation impairment, 221
chicks, 305
chloride channels, 239
p-chlorophenylalanine, 343

clonidine, 431
conditioned place preference, 309
cortex, 455, 465
detour learning, 305
diazepam, 315, 471, 477
differential motoric responses, 431
differential thermic responses, 431
dose-dependent effects, 287, 295, 325, 471, 477
drinking behavior, 375
drug discrimination, 203, 331, 471, 477
endogenous steroids, 269
ethanol, 305
ethanol intake, 349, 355, 409
ethanol overdrinking, 399
ethanol satiation, 325
ethanol self-administration, 375
ethanol sensitivity, 495
ethanol teratology, 513
event related potential responses, 315
exocrine pancreas, 359
feeding behavior, 375
fetal ethanol exposure, 431
fluoxetine, 283
food intake, 355, 367
GABA/benzodiazepine receptors, 239
$GABA_A$ receptors, 269
glutathione metabolism, 103
hemoglobin-associated acetaldehyde, 371
hepatic glucose-6-phosphate, 117
hippocampus, 121
5-HT-binding sites, 461
human studies, 371
intoxication, 251
intragastric self-administration, 283
in utero ethanol exposure, 455, 461
ionic transfer, 63
isopropylbicyclophosphate, 437
lethality, 5
lipid order, 251
match-to-sample performance, 477
maternal ethanol consumption, 465
monkeys, 315
monoamine pathways, 295
morphine, 409
motor impairment, 239
narcosis, 5
neurotensin, 195
neurotensin receptors, 195
nimodipene, 259
^{3}H-nitrendipine binding, 337
noradrenaline stimulated cAMP formation, 445
nutrients, antagonistic actions, 63
nutrients, preventive actions, 63
operant behavior, 471
pancreatic secretion, 359
6-phosphogluconate dehydrogenase, 117
physiological plasticity, 121
plasma, 371
prandial drinking, 375
prenatal exposure, 121, 451, 513
pre-optic area, 189
pyrazole, 367
rats, adult, 121
rats, alcohol-preferring, 283
rats, unrestrained, 189
response time, 203
Ro 15-4513, 203
route of administration, 343
schedule-induced polydipsia, 399
serotonergic system, 465
serotonin, 189
serotonin uptake, 455
sertraline, 349, 355
strain differences, 195, 287, 343, 367, 495, 513
sucrose-fading technique, 375
synthetic cogeners, 63
temperature-related release, 189
tetrahydro-beta-carboline, 331
tolerance, 343
vasoactive intestinal peptide stimulated cAMP formation, 445
voluntary intake, 367
water intake, 367

Ethanol consumption
alcohol-deprivation effects, 85
carbohydrate, 233
genetic influences, 85
nutrition, 233
protein, 233
selective breeding, 85

Ethanol consumption effects, 15
animal models
mathematical method of treatment

Ethanol elimination, 111
dogs
intragastric/intravenous administration

Ethanol intake
ethanol, 349, 355, 409
food intake, 355
morphine, 409
sertraline, 349, 355

Ethanol overdrinking, 399
alcohol preference
ethanol
schedule-induced polydipsia

Ethanol preference, 9
lever press
self administration
sucrose-fading procedure

Ethanol responsiveness, 99
cadmium exposure
righting reflex

Ethanol satiation, 325
bombesin
dose-dependent effects
ethanol

Ethanol self-administration, 375
drinking behavior
ethanol
feeding behavior
prandial drinking
sucrose-fading technique

Ethanol sensitivity, 495
ethanol
strain differences

Ethanol teratology, 513
alcohol sensitivity
ethanol
prenatal exposure
strain differences

Ethanol withdrawal
apomorphine, 107
barbiturate withdrawal, 167
drug interaction, 107
hypothermia, 107
withdrawal convulsions, 167

Event related potential responses, 315
diazepam
ethanol
monkeys

Exocrine pancreas, 359
amino acid transport
ethanol
pancreatic secretion

Feeding behavior, 375
drinking behavior
ethanol
ethanol self-administration
prandial drinking
sucrose-fading technique

Fetal alcohol syndrome, 125
hippocampal ^{3}H-glutamate binding
prenatal ethanol exposure

Fetal ethanol exposure, 431
clonidine
differential motoric responses
differential thermic responses
ethanol

Fetal hypoplasia, 91
alcohol metabolism
embryos, chick

Fluoxetine, 283
ethanol
intragastric self-administration
rats, alcohol-preferring

Food intake
ethanol, 355, 367
ethanol intake, 355
pyrazole, 367
sertraline, 355
strain differences, 367
voluntary intake, 367
water intake, 367

Frontal cortex, 275
alcoholics
benzodiazepine receptors
brain, human

GABA/benzodiazepine receptors, 239
chloride channels
ethanol
motor impairments

$GABA_A$ receptors, 269
brain, rat
endogenous steroids
ethanol

Gangliosides, 215
alcohol
brain
sialidase

Genetic breeding, 173
alcohol
renin-angiotensin system
voluntary intake

Genetic influences, 85
alcohol-deprivation effects
ethanol consumption
selective breeding

Glutathione metabolism, 103
acute administration
ethanol

Harman, 505
alcohol consumption
brain, rat
cerebrospinal fluid, human
lung, rat

Hemoglobin-associated acetaldehyde, 371
ethanol

human studies
plasma
Hepatic aldehyde dehydrogenase isoenzymes, 33
alcohol liver injury
species differences
Hepatic glucose-6-phosphate, 117
ethanol
6-phosphogluconate dehydrogenases
5-HT_2 binding sites, 461
ethanol
in utero ethanol exposure
Hippocampal ^{3}H-glutamate binding, 125
fetal alcohol syndrome
prenatal ethanol exposure
Hippocampus, 121
ethanol
physiological plasticity
prenatal exposure
rats, adult
Human biological material, 39
acetaldehyde
aldehyde dehydrogenase
assay system
isozyme activity
Human studies
acyl group composition, 153
alcohol, 481
alcohol abusers, 481
alcoholics, 153
amino acid loading, 481
double-blind placebo-controlled study, 481
enkephalinase inhibition, 481
ethanol, 371
hemoglobin-associated acetaldehyde, 371
plasma, 371
polydrug abusers, 481
SAAVE, 481
serum lipids, 153
Human studies, female
alcohol, 393
alcohol consumption, 21
carbohydrate-deficient transferrin, 393
early alcohol dependence, 393
marihuana smoking, 21
sexual activity, 21
Hydrolysis sialoconjugates, 499
brain, mouse
ethanol
in vitro
Hypothermia, 107
apomorphine
drug interaction
ethanol withdrawal

Intoxication, 251
calcium
ethanol
lipid order
Intragastric/intravenous administration, 111
dogs
ethanol elimination
Intragastric self-administration, 283
ethanol
fluoxetine
rats, alcohol-preferring
In utero ethanol exposure
cortex, 455
ethanol, 455, 461
5-HT_2 binding sites, 461
serotonin uptake, 455
In vitro, 499
brain, mouse
ethanol
hydrolysis sialoconjugates
Ionic transfer, 63
amnion, human
ethanol
nutrients, antagonistic actions
nutrients, preventive actions
synthetic cogeners
Iron metabolization, 135
alcoholic liver injury
lipid peroxidation
microsomal induction
Isolated hepatocytes, 49
alcoholic liver disease
chronic alcohol consumption
mitochondrial GOT
Isopropylbicyclophosphate, 437
anti-punishment effects
ethanol
Isozyme activity, 39
acetaldehyde
aldehyde dehydrogenase
assay system
human biological material

Lethality, 5
aminotriazole
catalase peroxidase pathway
ethanol
narcosis
Lever press, 9
ethanol preference
self administration
sucrose-fading procedure
Lipid order, 251
calcium
ethanol
intoxication
Lipid peroxidation, 135
alcoholic liver injury
iron metabolization
microsomal induction
Liver aldehyde dehydrogenase isoenzymes, 73
alcoholics/non-alcoholics
biopsy/autopsy liver, human
Liver disease, 387
alcoholism
blood cells
enolase activity
superoxide dismutase
Lung, rat, 505
alcohol consumption
brain, rat
cerebrospinal fluid, human
harman

Marihuana smoking, 21
alcohol consumption
human studies, females
sexual activity
Match-to-sample performance, 477
baboons
diazepam
dose-dependent effects
drug interactions
ethanol
Maternal ethanol consumption, 465
cortex
ethanol
serotonergic system
Mathematical method of treatment, 15
animal models
ethanol consumption effects
Method
chromatography, 417
column chromatography, 49
double-blind placebo-controlled study 481
fluorigenic high performance liquid chromatographic, 371
high performance liquid chromatography, 505
sucrose-fading technique, 375
Microencephaly, 209
alcohol
blood alcohol concentration
pattern of administration
rats, neonatal
Microsomal induction, 135
alcoholic liver injury
iron metabolization
lipid peroxidation
Milk yield, 95
alcohol
prolactin release
suckling
Mitochondrial GOT, 49
alcoholic liver disease
chronic alcohol consumption
isolated hepatocytes
Moderate drinking, 229
alcohol abstinence
urinary dolichol levels
Monkeys, 315
diazepam
ethanol
event related potential responses
Monoamine pathways, 295
dose-dependent effects
ethanol
Morphine, 409
ethanol
ethanol intake
Motor impairments, 239
chloride channels
ethanol
GABA/benzodiazepine receptors

Narcosis, 5
aminotriazole
catalase peroxidase pathway
ethanol
lethality
Neurotensin, 195
ethanol
neurotensin receptors
strain differences
Neurotensin receptors, 195
ethanol
neurotensin
strain differences
Nicotine, 55
desensitization
seizures
strain differences
Nimodipene, 259
alcohol disposition
ethanol

[3]H-nitrendipine binding, 337
acetaldehyde
acute administration
brain, rat
calcium channels, L-type
ethanol
Noradrenaline stimulated cAMP formation, 445
adenylate cyclase
brain, mouse
ethanol
vasoactive intestinal peptide stimulated cAMP formation
Norepinephrine, 183
alcohol
alcohol-induced alterations
astrocytes
phosphoinositide hydrolysis
Nutrients, antagonistic actions, 63
amnion, human
ethanol
ionic transfer
nutrients, preventive actions
synthetic cogeners
Nutrients, preventive actions, 63
amnion, human
ethanol
ionic transfer
nutrients, antagonistic actions
synthetic cogeners
Nutrition, 233
carbohydrate
ethanol consumption
protein

Operant behavior, 471
diazepam
dose-dependent effects
drug interactions
ethanol
Opioid studies, 141
alcohol intake
endogenous opioid systems

Pancreatic secretion, 359
amino acid transport
ethanol
exocrine pancreas
Pattern of administration, 209
alcohol
blood alcohol concentration
microencephaly
rats, neonatal
Peptide
adrenocorticotropin, 287
beta-endorphin, 159
bombesin, 325
corticotropin releasing factor, 287
neurotensin, 195
pro-opiomelanocortin, 159
serotonin, 189
vasoactive intestinal peptide stimulated cAMP formation, 445
6-Phosphogluconate, 117
ethanol
hepatic glucose-6-phosphate
Phosphoinositide hydrolysis, 183
alcohol
alcohol-induced alterations
astrocytes
norepinephrine
Physiological plasticity, 121
ethanol
hippocampus
prenatal exposure
rats, adult
Physostigmine, 27
prenatal alcohol exposure
shuttle avoidance
Plasma, 371
ethanol
hemoglobin-associated acetaldehyde
human studies
Polydrug abusers, 481
alcohol
alcohol abusers
amino acid loading
double-blind placebo-controlled study
enkephalinase inhibition
human studies
SAAVE
Prandial drinking, 375
drinking behavior
ethanol
ethanol-self administration
feeding behavior
sucrose-fading technique
Prenatal alcohol exposure, 27
physostigmine
shuttle avoidance
Prenatal ethanol exposure
ataxia, 451
ethanol, 451
fetal alcohol syndrome, 125
hippocampal [3]H-glutamate binding, 125
Prenatal exposure
alcohol sensitivity, 513
ethanol, 121, 513
ethanol teratology, 513
hippocampus, 121
physiological plasticity, 121
rats, adult, 121
strain differences, 513
Pre-optic area, 189
ethanol
rats, unrestrained
serotonin
temperature-related release
Prolactin release, 95
alcohol
milk yield
suckling
Protein, 233
carbohydrate
ethanol consumption
nutrition
Pyrazole, 367
ethanol
food intake
strain differences
voluntary intake
water intake

Rats, adult, 121
ethanol
hippocampus
physiological plasticity
prenatal exposure
Rats, alcohol-preferring, 283
ethanol
fluoxetine
intragastric self-administration
Rats, neonatal, 209
alcohol
blood alcohol concentration
microencephaly
pattern of administration
Rats, unrestrained, 189
ethanol
pre-optic area
serotonin
temperature-related release
Renin-angiotensin system, 173
alcohol
genetic breeding
voluntary intake
Response time, 203
ethanol
drug discrimination
Ro 15-4513
Righting reflex, 99
cadmium exposure
ethanol responsiveness
Ro 15-4513, 203
ethanol
drug discrimination
response time
Route of administration, 343
p-chlorophenylalanine
ethanol
strain differences
tolerance

SAAVE, 481
alcohol
alcohol abusers
amino acid loading
double-blind placebo-controlled study
enkephalinase inhibition
human studies
polydrug abusers
Schedule-induced polydipsia, 399
alcohol preference
ethanol
ethanol overdrinking
Seizures, 55
desensitization
nicotine
strain differences
Selective breeding, 85
alcohol-deprivation effect
ethanol consumption
genetic influences
Self administration, 9
ethanol preference
lever press
sucrose-fading procedure
Serotonergic system, 465
cortex
ethanol
maternal ethanol consumption
Serotonin, 189
ethanol
pre-optic area
rats, unrestrained
temperature-related release
Serotonin uptake, 455
cortex
ethanol
in utero ethanol exposure
Sertraline
ethanol, 349, 355
ethanol intake, 349, 355
food intake, 355

Serum gamma glutamyl transferase, 1
  alcohol abstinence
  alcohol abuse
Serum lipids, 153
  acyl group composition
  alcoholics
  human studies
Sexual activity, 21
  alcohol consumption
  human studies, females
  marihuana smoking
Shuttle avoidance, 27
  physostigmine
  prenatal alcohol exposure
Sialidase, 215
  alcohol
  brain
  gangliosides
Sodium channels, 81
  alcohol-related behaviors
  alcohol sensitivity
Species differences, 33
  alcohol liver injury
  hepatic aldehyde dehydrogenase isoenzymes
Strain differences
  adrenal monoamine concentrations, 417
  adrenocortical response, 287
  alcohol dehydrogenase, 45
  alcohol preference, 45
  alcohol sensitivity, 513
  brain regional concentrations, 417
  p-chlorophenylalanine, 343
  desensitization, 55
  dose-dependent effects, 287
  ethanol, 195, 287, 343, 367, 495, 513
  ethanol sensitivity, 495
  ethanol teratology, 513
  food intake, 367
  neurotensin, 195
  neurotensin receptors, 195
  nicotine, 55
  prenatal exposure, 513
  pyrazole, 367
  route of administration, 343
  seizures, 55
  stress, 417
  tolerance, 343
  voluntary intake, 367
  water intake, 367
Stress, 417
  adrenal monoamine concentrations
  brain regional concentrations
  strain differences
Suckling, 95
  alcohol
  milk yield
  prolactin release
Sucrose-fading technique
  drinking behavior, 375
  ethanol, 375
  ethanol self-administration, 375
  ethanol preference, 9
  feeding behavior, 375
  lever press, 9
  prandial drinking, 375
  self administration, 9
Sucrose octa acetate (SOA), 301
  alcohol
  alcohol consumption
  alcohol preference
  drinking paradigm
  taste comparison
Superoxide dismutase, 387
  alcoholism
  blood cells
  enolase activity
  liver disease
Synthetic cogeners, 63
  amnion, human
  ethanol
  ionic transfer
  nutrients, antagonistic actions
  nutrients, preventive actions

Taste comparison, 301
  alcohol
  alcohol consumption
  alcohol preference
  drinking paradigm
  sucrose octa acetate (SOA)
Temperature-related release, 189
  ethanol
  pre-optic area
  rats, unrestrained
  serotonin
Tetrahydro-beta-carboline, 331
  ethanol
  drug discrimination
Tetrahydropapaveroline, 147
  alcohol drinking
  brain monoaminergic pathways
  buspirone
Tolerance, 343
  p-chlorophenylalanine
  ethanol
  route of administration
  strain differences

Urinary dolichol levels, 229
  alcohol abstinence
  moderate drinking

Vasoactive intestinal peptide stimulated cAMP formation, 445
  adenylate cyclase
  brain, mouse
  ethanol
  noradrenaline stimulated cAMP formation
Voluntary intake
  alcohol, 173
  ethanol, 367
  food intake, 367
  genetic breeding, 173
  pyrazole, 367
  renin-angiotensin system, 173
  strain differences, 367
  water intake, 367

Water intake, 367
  ethanol
  food intake
  pyrazole
  strain differences
  voluntary intake
Withdrawal convulsions, 167
  barbiturate withdrawal
  ethanol withdrawal

AUTHOR INDEX

Abdel-Rahman, A-R. A., 221
Abel, E. L., 95
Abelson, M. L., 141, 409
Agarwal, D. P., 73
Amit, Z., 349, 355
Anderson, T., 495
Arai, M., 49

Ballinger, W. E., Jr., 275
Bara, M., 63
Belknap, J. K., 167
Benard, J.-Y., 1
Bergamaschi, S., 337
Blanchard, B. A., 27, 431
Bloom, F. E., 437
Blum, K., 481
Bockel, R., 387
Bonthius, D. J., 209
Borg, S., 393, 505
Bosin, T. R., 505
Bratton, G. R., 99
Britton, K. T., 437
Burkhardt, C. A., 409
Burnette, M. A., 305
Burright, R. G., 259

Cabey, L. B., 117
Cannon, R. L., 325
Cataldie, L., 481
Catravas, G. N., 321
Chin, P. C., 153
Cinader, B., 45
Clark, D. E., 99
Colbern, D. L., 107
Cole, R., 183
Collado, P. S., 103
Collins, A. C., 55
Contreras, S., 15, 367
Crabbe, J. C., 167
Czachura, J. F., 107

Dahlgren, L., 393

Dalterio, S. L., 471, 477
Danielson, P. W., 167
DE Fiebre, C. M., 55
DE Vellis, J., 183
Dingler, M. L., 481
Doffoel, M., 387
Doffoel, S., 387
Druse, M. J., 455, 461, 465
Dudek, B. C., 513
Durlach, J., 63

Ebihara, Y., 49
Ehlers, C. L., 315
Elliott, C. E., 481
Emmett, N. L., 117
Erickson, C. K., 181, 267, 341, 427, 521
Erwin, V. G., 195, 287
Esteller, A., 103

Fahey, J. M., 259
Falk, J. L., 399
Farr, K. L., 121, 125
Faull, K. F., 505
Fermoso, J., 103
Filion, Y., 355
Fitzgerald, L. W., 431
Forsander, O. A., 233
Freund, G., 275

Gallegos, J. C., 111
Gatto, G. J., 283
Geller, I., 471, 477
Gill, K., 349, 357
Gilliam, D. M., 259, 513
Glazner, G. W., 325
Goedde, H. W., 73
Gonzalez, J., 103
Gonzalez, L. P., 107
Goodlett, C. R., 209
Gorka, C., 153
Govoni, S., 337
Greenberg, J., 263
Grupp, L. A., 173
Guiet-Bara, A., 63

Han, P. F., 117
Hannigan, J. H., 431, 451
Haraguchi, M., 375
Harris, R. A., 251
Hartmann, R. J., 471, 477
Hawley, R. J., 321
Herlands, S. E., 409
Hermann, J. J., 111
Hellevuo, K., 417
Hiltunen, A. J., 203
Hornsby, R. L., 147
Hubbell, C. L., 141, 409
Hui, Y., 309
Huttunen, P., 189

Ibim, S. E. M., 117
Isaacson, R. L., 259
Ishii, H., 49
Israel, Y., 45

Jackson, J. E., 111
Järbe, T. U. C., 203
Jayatilleke, E., 135
Johnson, J., 117
Johnston, J. E., 259
Jovanovic-Peterson, L., 371

Kaheinen, P., 417
Kashiwazaki, K., 49
Khatib, S. A., 295
Kiianmaa, K., 417
Kim, Hun-Soo, 183
Klemm, W. R., 215, 499
Koe, B. K., 349
Koob, G. F., 437
Kopp, P., 387
Korenke, G. C., 73
Korpi, E. R., 81, 239, 417, 523
Kotch, L. E., 513
Korte, A., 195
Kulkosky, P. J., 325

Lahiri, S., 153
Lajtha, A., 81
Lame, M., 167
Lapinlampi, T., 189
Ledig, M., 387
Leenen, F. H. H., 173
Le Goff, A.-M., 1
Letelier, C., 5
Lex, B. W., 21
Li, T. K., 283
Lieber, C. S., 135
Linseman, M. A., 301
Long, D. A., 111
Lumeng, L., 283

McBride, W. J., 283, 295
McClard, A., 251
McGivern, R. F., 495
McLane, M. M., 111
McQuilkin, S., 251

MacKechnie, D. K., 309
Magistretti, P. J., 445
Majewska, M. D., 269
Major, L. F., 321
Malminen, O., 239, 523
Mandel, P., 387
Mann, G. E., 359
Mardones, J., 5, 15, 367
Marglin, S. H., 309
Maring, R. G., 215
Martin, M. I., 103
Martinez, V., 263
Mathew, J., 215, 499
Mattie, M. E., 309
Means, L. W., 305
Meier-Tackmann, D., 73
Mello, N. K., 21
Mendelson, J. H., 21
Mendelson, W. B., 437
Montano, C. Y., 125
Munoz, M., 359
Muñoz, M. E., 103
Murphy, J. M., 283, 295
Myers, R. D., 147, 189

Nation, J. R., 99
Neuman, R., 141
Noble, E. P., 183

Okuno, F., 49

Palmieri, S. L., 21
Paul, L. H., 455
Paxton, L. L., 125
Pechery, C., 63
Pennington, S. N., 91, 305
Peran, S., 359
Perlanski, E., 173
Peterson, C. M., 371
Pfeffer, A. O., 375
Phillips, M., 263
Poplack, J., 321
Privette, T. H., 147

Quintanilla, M. E., 5, 343

Regan, S. G., 403
Reid, L. D., 141, 309, 409
Reith, M. E. A., 81
Riley, E. P., 27, 431, 451, 513
Ritchie, T., 183
Rius, R. A., 337
Roine, R. P., 229
Rush, A., 153

Sadeghi, K. G., 9, 375
Samson, H. H., 9, 375
Samuels, A. I., 481
Savage, D. D., 121, 125
Schaad, N. C., 445
Schafer, J., 437
Schechter, M. D., 331
Schellenberg, F., 1
Schmid-Formby, F., 371
Schorderet, M., 445
Schulman, E., 321
Segovia-Riquelme, N., 15
Sexton, R. L., 481
Shaw, S., 135
Shigeta, Y., 49
Signs, S. A., 331
Sinclair, J. D., 85, 233, 417
Stewart, R. B., 173
Stibler, H., 393
Subramanian, M. G., 95
Sugata, K., 33, 39
Sun, G. Y., 153
Swartzwelder, H. S., 121

Tajuddin, N., 461, 465
Takada, A., 33, 39
Takagi, S., 49
Takagi, T., 49
Takase, S., 33, 39
Tampier, L., 5, 343
Tang, M., 399
Taylor, B., 99
Teichert-Kuliszewska, K., 45
Tiihonen, K., 85
Tolliver, G. A., 9, 375
Topel, H., 159
Trabucchi, M., 337
Trachtenberg, M. C., 481
Tsuchiya, M., 49
Tsutsumi, M., 33, 39
Tzamaloukas, A. H., 111

Urrutia, C., 343

Vargas, D., 259
Viitamaa, T., 417
Von Stultz, J., 99

Wall, T. L., 437
Waller, M. B., 283
Wayner, M. J., 471, 477
Weill, J., 1
Wellman, P. J., 99
West, J. R., 209
Wild, K. D., 141
Wilson, W. A., 121
Wood, W. G., 153
Wooles, W. R., 221

York, J. L., 403

Zaccaro, L. M., 251
Zhang, X., 221
Zgombick, J. M., 287

Reproduced with the permission of Pergamon Press Inc., by University Microfilms Inc. Duplication or resale without permission is prohibited.